

POLART SYSTEM

Indoor Decorative Flooring



Colored, smooth or textured, in-situ applied cast decorative cement-based flooring. Possesses superior strength and can satisfy the most demanding requirements in aesthetics, style and uniqueness. It creates a uniform, roomy floor with the possibility of either shiny or mat final surfaces look, imparted by special synthetic resins used on the top. It can come in endless versions in shade, texture or design, depending on the application technique, providing at the same time high strength and durability. For unique style, it can be treated with special acrylic stains to create designs and stylish shades. Recommended mainly for indoor surfaces in commercial, business and recreational areas like exhibition halls, hotel lobbies, restaurants, malls, shops, offices.

Preparation – Application

Applied only on dry, smooth concrete or other porous, stable surfaces like marble without arising humidity issues and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material. The substrate has to be as smooth as possible with superficial expansion joints have to be provided (approximately every 15m² - in a grid of 4m x4m or similar).

- Good, dry cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming with **POLEPOX PR 824** (solvent-based epoxy primer) till the surface is glossy and saturated.
- Broadcasting of quartz sand over the entire freshly laid surface
- Next day, sweeping/removing of the unstuck quartz sand and applying a thin layer of the acrylic primer **RITIVEX 1102**.
- Then, installation of **POLART** liquid mixed with cement and water will follow same day (75% POLART 25% CEMENT on weight plus 3.5-4kg water). Use a flat metal trowel for the application of the **POLART** mix. Move the trowel in crescents (half-circles) to create the unique POLART patterns (or whatever else you might choose). Use the trowel gently and smoothly to apply the **POLART** mix, make sure you leave behind an approximate thickness of 2-2.5mm. Then let the mix settle. During the application, cover the expansion joints with tapes and remove the tapes right after you finish laying in that part of the surface (don't let the tapes stay for long).
- After 3-4 days grind the dry **POLART** surface with sandpaper, gradually doing the, 180 and 220 gauge grinding.
- Then application of the top varnish, consisting of two different materials: a **varnish primer** first (**POLART VARNISH PRIMER**), applied in two layers with total consumption 100gr/m², and then the **final top varnish (POLART VARNISH)**, again applied in two layers with total consumption approx. 100gr/m². Each layer of each of the two materials is applied after the previous layer has set sufficiently (darkening the surface first before drying). Time lapse between successive layers should be around 4-5 hours in 20 degrees, increasing as the temperature drops. For the application of the varnish primer and the final top varnish, we use a special tool (kind of brush). This two-material top varnish technique **leaves the surface of POLART unaffected (relatively mat and not darker)**.
- Still we can also have a glossy, pattern with the use of **POLFLOOR PU 807** (shiny polyurethane varnish) as final coating in two layers (250-300gr/m² total consumption). Polyurethane, aliphatic, two component resin **POLFLOOR PU 807** intensifies the **POLART** surface, making it a bit darker and glossy.